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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/877,622	06/08/2001	Qianjun Liu	4143/CIP-1 2232	
7590 01/10/2006		EXAMINER		
Harris Zimmerman			NGUYEN, JENNIFER T	
Law Offices of Harris Zimmerman Suite 710			ART UNIT	PAPER NUMBER
1330 Broadway			2674	
Oakland, CA 94612-2506			DATE MAILED: 01/10/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

PTO-90C (Rev. 10/03)

	Application No.	Applicant(s)	
Office Action Summer.	09/877,622	LIU ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jennifer T. Nguyen	2674	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPI WHICHEVER IS LONGER, FROM THE MAILING [ - Extensions of time may be available under the provisions of 37 CFR 1, after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statur Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION  .136(a). In no event, however, may a reply be tire  d will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
1)☐ Responsive to communication(s) filed on <u>08</u> .  2a)☐ This action is <b>FINAL</b> . 2b)☑ This  3)☐ Since this application is in condition for allows closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims	Ex parte Quayre, 1000 C.D. 11, 4	50 O.G. 210.	
·			
4) ☐ Claim(s) 1-5,13,16-19 and 21 is/are pending 4a) Of the above claim(s) is/are withdra 5) ☐ Claim(s) 13,16,17,19 and 21 is/are allowed. 6) ☐ Claim(s) 1-5,18 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/	awn from consideration.		
Application Papers			
9) The specification is objected to by the Examin 10) The drawing(s) filed on is/are: a) ac Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	cepted or b) objected to by the edrawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureat * See the attached detailed Office action for a list	nts have been received.  Its have been received in Applicatority documents have been received.	ion No ed in this National Stage	
Attachment(s)	<b>.</b> □	(070,440)	
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date</li> </ol>	4)  Interview Summary Paper No(s)/Mail D  5)  Notice of Informal F  6) Other:		

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## **DETAILED ACTION**

1. This Office action is responsive to amendment filed on 10/13/05.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3, 5, and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (Patent No. US 6,476,799) in view of Kahn et al. (Patent No. US 6,404,416).

Regarding claims 1 and 18, referring to Figs. 1-4, Lee teaches a touch sensing system for identifying at least one active touch stimulating device (100), an apparatus for powering the active touch stimulating device (100) comprising:

a touch sensing area (10) in which said at least one active touch stimulating device (100) operates;

a transducer (20) disposed operatively associated with said touch sensing area (10) for transmitting a power signal to said at least one active touch stimulating devices (100);

each of said active touch stimulating devices (100) including means for receiving said power signal and converting said power signal to electrical operating power for said active touch stimulating device (100);

said transducer (20) includes a first antenna (i.e., surrounding coils) extending about the perimeter of said touch sensing area (10) and further including means for connecting said power

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signal to said first antenna to generate an EM power field across said touch sensing area (col. 3, lines 29-67, col. 4, lines 1-9, and col. 6, lines 9-45).

Lee differs from claims 1 and 18 in that he does not specifically teaches the touch stimulating device includes touch signaling means incorporating spread spectrum signals.

Kahn teaches a touch stimulating device includes touch signaling means incorporating spread spectrum signals (col. 9, lines 1-7, col. 10, lines 23-28, col. 19, lines 32-33).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the spread spectrum signals as taught by Kahn in the system of Lee in order to decrease the interference to other, achieve the privacy and reduce noise.

Regarding claim 2, Lee further teaches at least one touch stimulating device (100) includes a second antenna (110) adapted to receive power from said EM field within said touch sensing area (10) (col. 6, lines 9-45).

Regarding claim 3, Lee further teaches second antenna (110) is a resonant antenna tuned to the frequency of said EM field (col. 6, lines 9-45).

Regarding claim 5, Lee further teaches the resonant antenna (110) includes an inductor coil (L2) and a capacitor (C1) connected to be tuned to the frequency of said EM field (col. 6, lines 9-45).

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Lee et al. (U.S. Patent No. 6,476,799) in view of Kahn et al. (Patent No. US 6,404,416) and further in view of Katsurahira et al. (U.S. Patent No. 5,682,019).

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Regarding claim 4, the combination of Lee and Kahn differs from claim 4 in that it does not specifically teach rectifying means connected to the output of said resonant antenna to generate operating power for said active touch stimulating device.

However, referring to Figs. 1 and 4, Katsurahira teaches rectifying means (19) connected to the output of said resonant antenna (11, 12) to generate operating power for said active touch stimulating device (col. 2, lines 33-35).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the rectifying means connected to the output of said resonant antenna to generate operating power for said active touch stimulating device as taught by Katsurahira in the system of the combination of Lee and Kahn in order to provide the DC power for operating the touch input device.

- 5. Claims 13, 16, 17, 19 and 21 are allowed.
- 6. Applicant's arguments with respect to claims 1-5 and 18 have been considered but are most in view of the new ground(s) of rejection.

## Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer T. Nguyen whose telephone number is 571-272-7696. The examiner can normally be reached on Mon-Fri: 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick N. Edouard can be reached on 571-272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Jennifer Nguyen 1/5/06

XIAO WU PRIMARY EXAMINER